

City of Ridgecrest 5 Year Pavement Rehabilitation Plan

Plan Created by Gail Rao and Les Wood

Presented on 2/3/2021

By Bard Lower

History

- City maintains 129 centerline miles of paved roadway
- Since 2012 the City has used various funding methods, mostly Measure L and V and TAB Bonds to rehabilitate 50 centerline miles of City streets
- Measure V is the single largest funding source available to maintain City streets
- In 2012 Measure L was approved
- In 2016 Measure V was approved
- Measure V expires in 2024

History

- The City has used various repair/rehabilitation methods to accomplish this milestone
 - Slurry and Double Slurry
 - Chip Seal and Double Chip Seal
 - Fog Seal
 - Cape Seal
 - Microsurfacing
 - Mill and Resurface
 - Total reconstruction
- The use of any of these methods is considered resurfacing a roadway

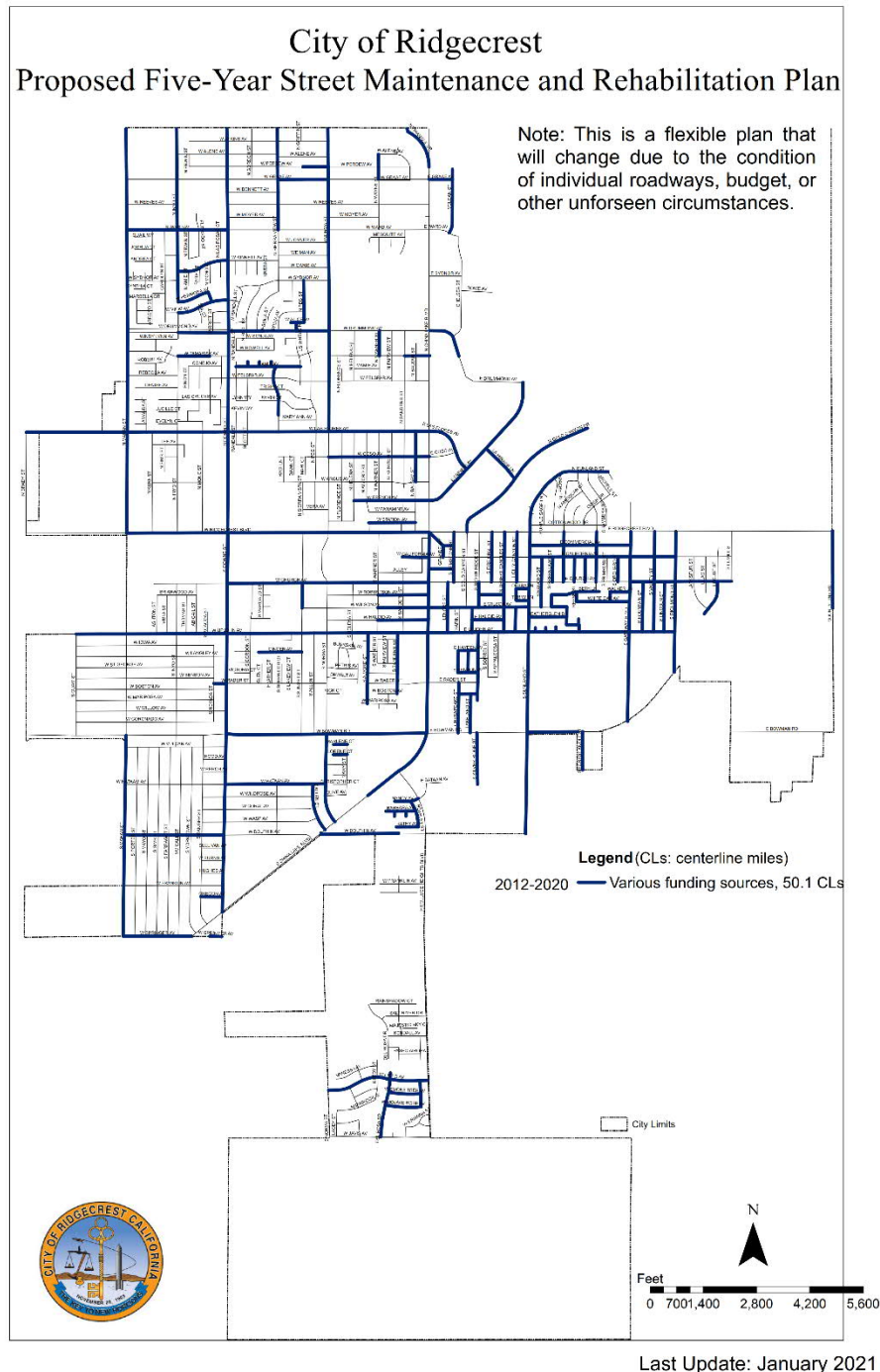
5 Year Plan

- When I became your PW Director in 2018 I was charged by the City Manager with developing a 5 year streets resurfacing plan
- In late spring of 2018 Council decided to move forward with the purchase of a slurry machine
 - Making this the City's first line of pavement rehabilitation
- It has taken nearly two years to gather enough data on the Street Division's slurring capability to be able to predict future capacity

5 Year Plan

- In 2019 PW added an engineer to do pavement/asset management, among other things
- Using Gail's pavement management knowledge and Les' practical knowledge of 30+ years with Streets they worked together to create the 5 year plan that we are discussing tonight

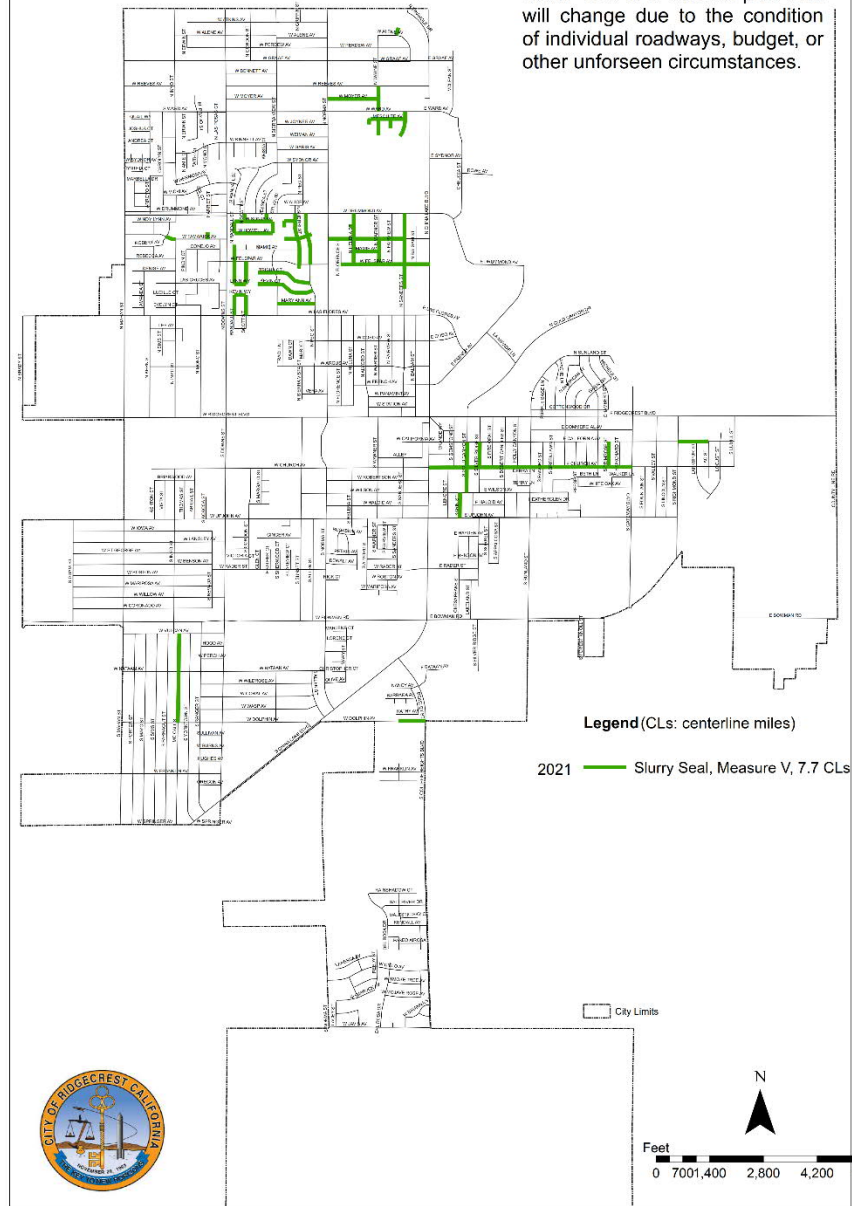
These are all the streets within the City that have been resurfaced since 2012. 50 centerline miles and 42% of all roadways



Shown in green are
the streets
proposed for slurry
in the Spring and
Fall of 2021

City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

Note: This is a flexible plan that
will change due to the condition
of individual roadways, budget, or
other unforeseen circumstances.

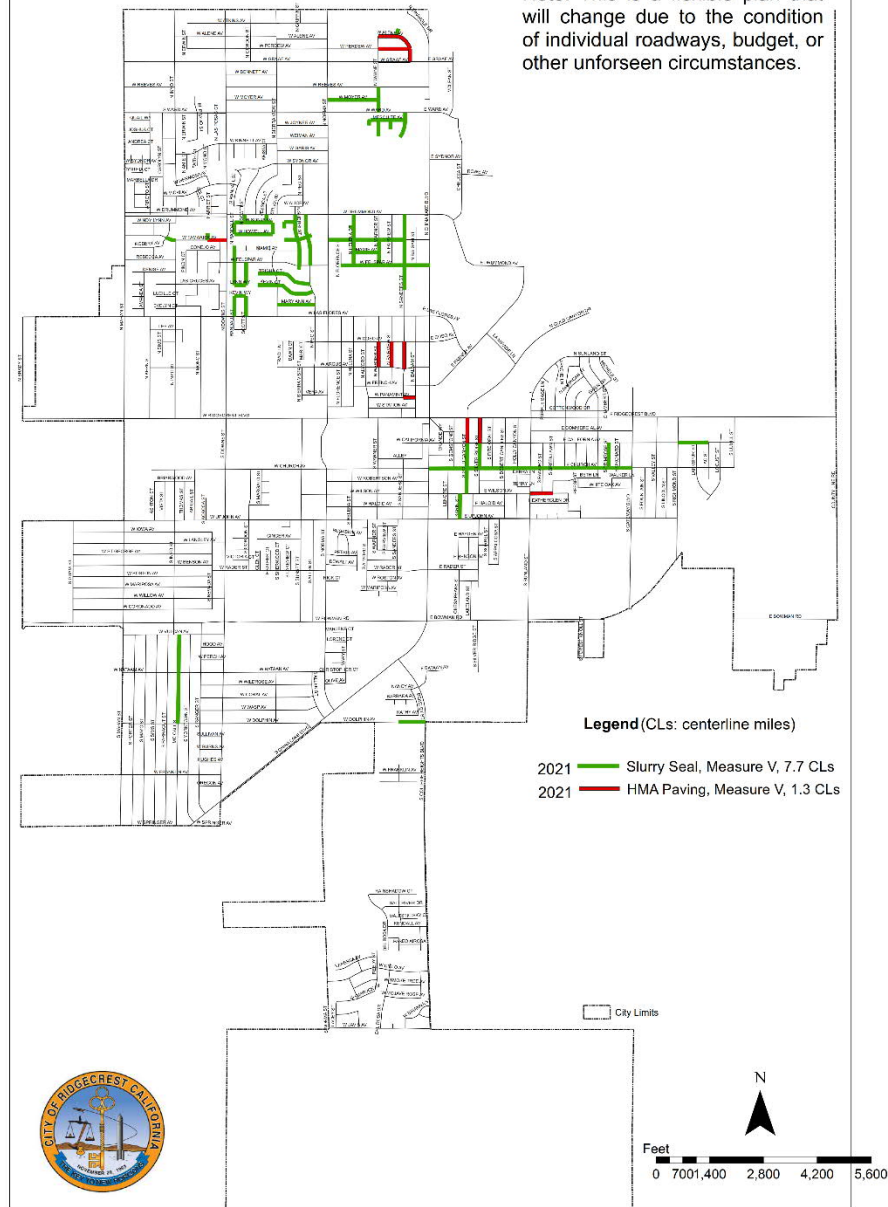


Last Update: January 2021

City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

The red streets are those designated to be resurfaced in first year of the Measure V Paving Program. These streets are proposed to be milled and then paved with asphalt in the summer of 2021

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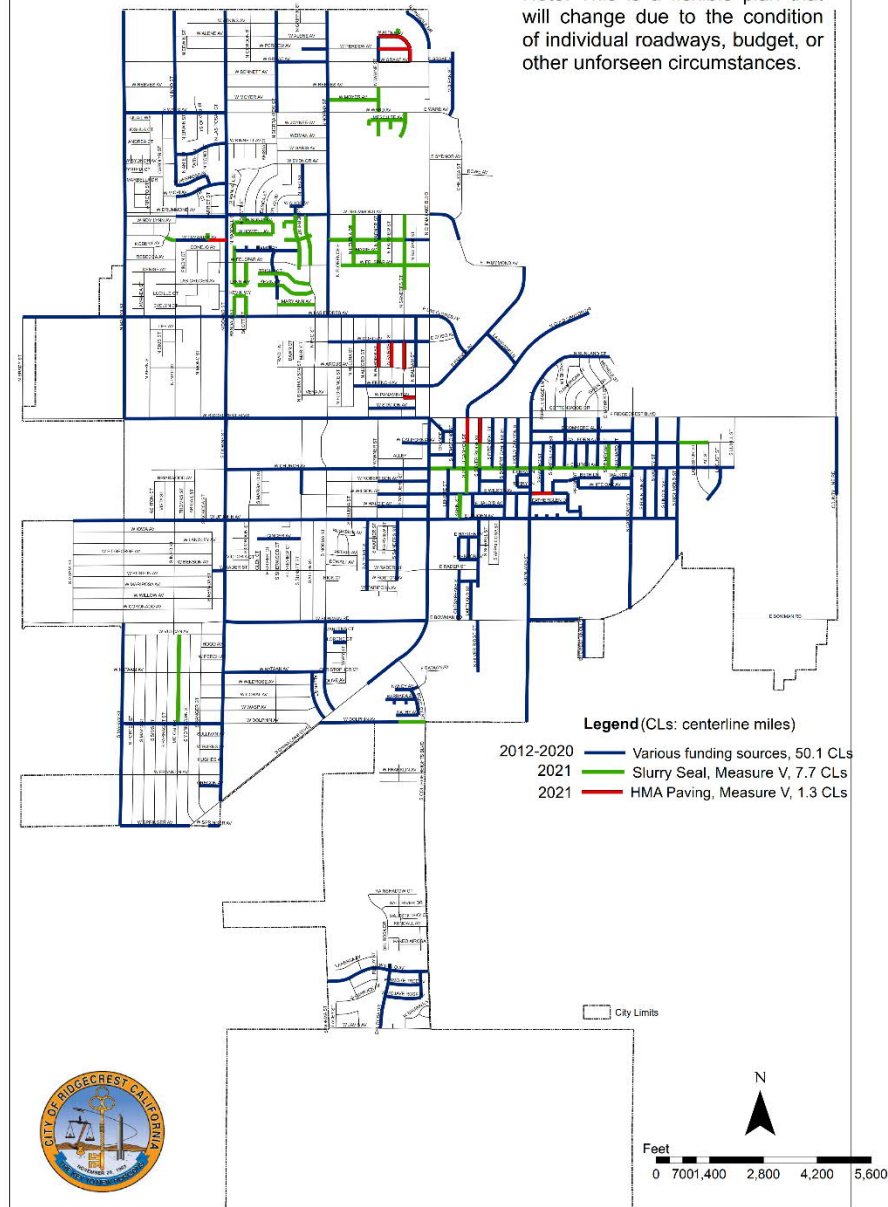


Last Update: January 2021

City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

This shows all the streets that are proposed to be completed by November of 2021. 59.1 Centerline miles and 48% of all roads

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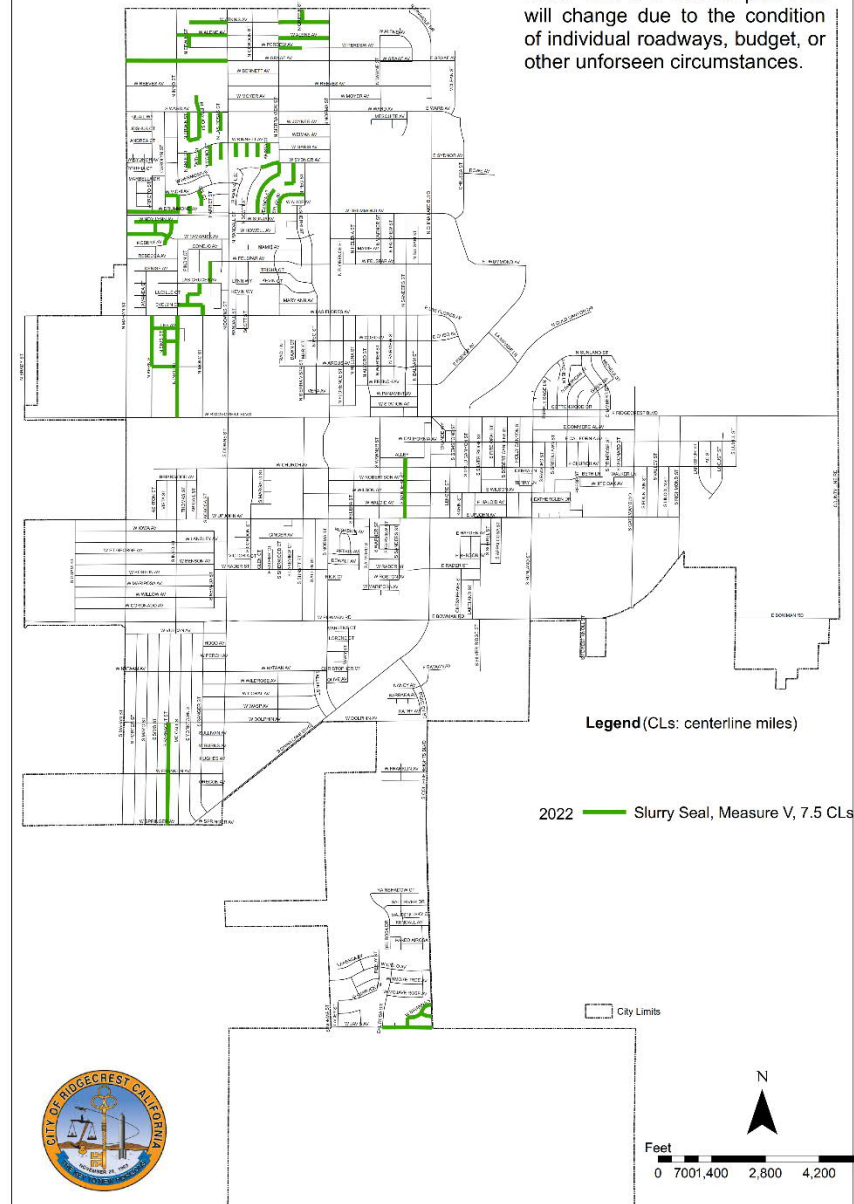


Last Update: January 2021

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are the streets
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City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

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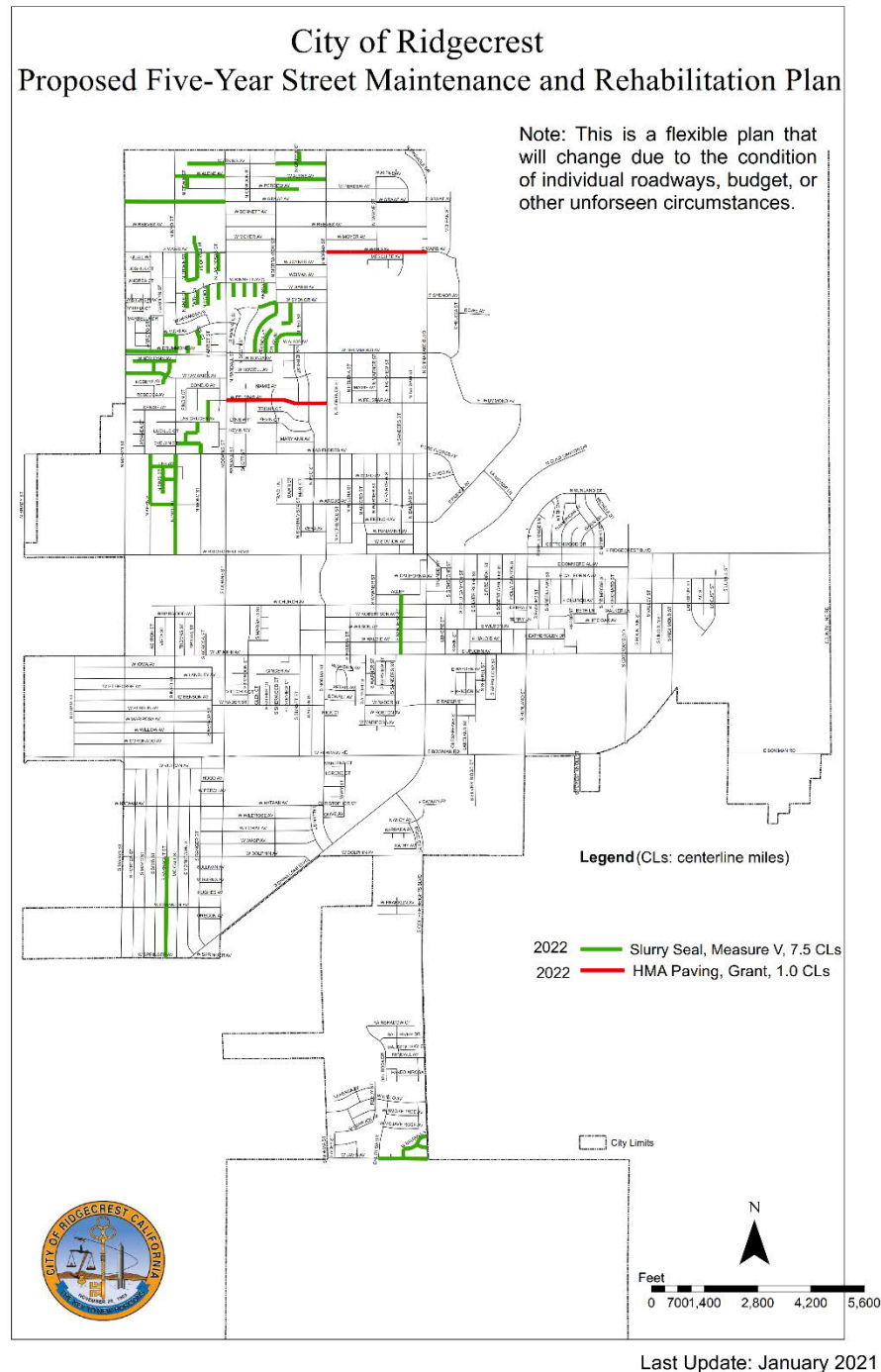


Last Update: January 2021

The red streets are two streets proposed to be milled and repaved in the summer of 2022.

Felspar is funded through a grant tied to the low income housing project on Norma.

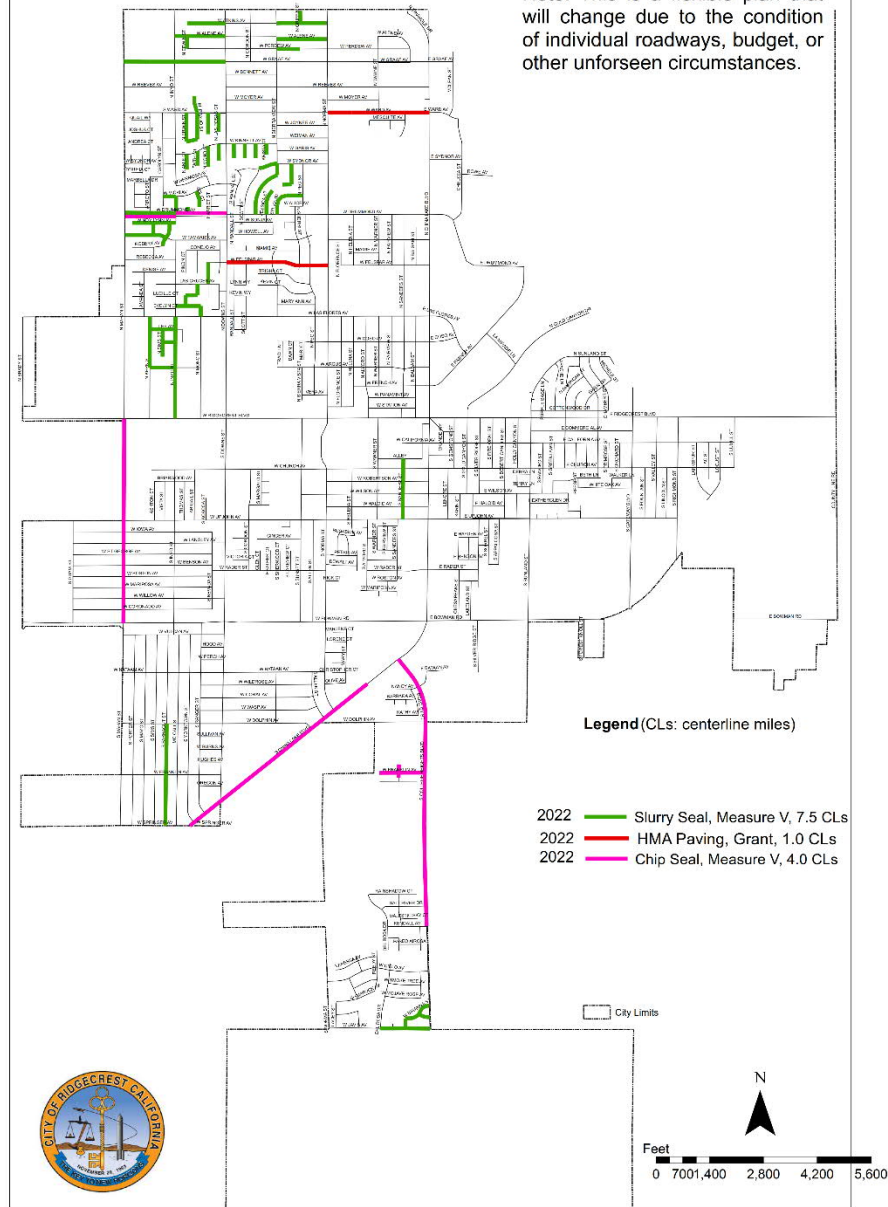
Ward is funded through Federal RSTP funding.



The Pink streets are proposed to be chip sealed using Measure V funding in the summer of 2022

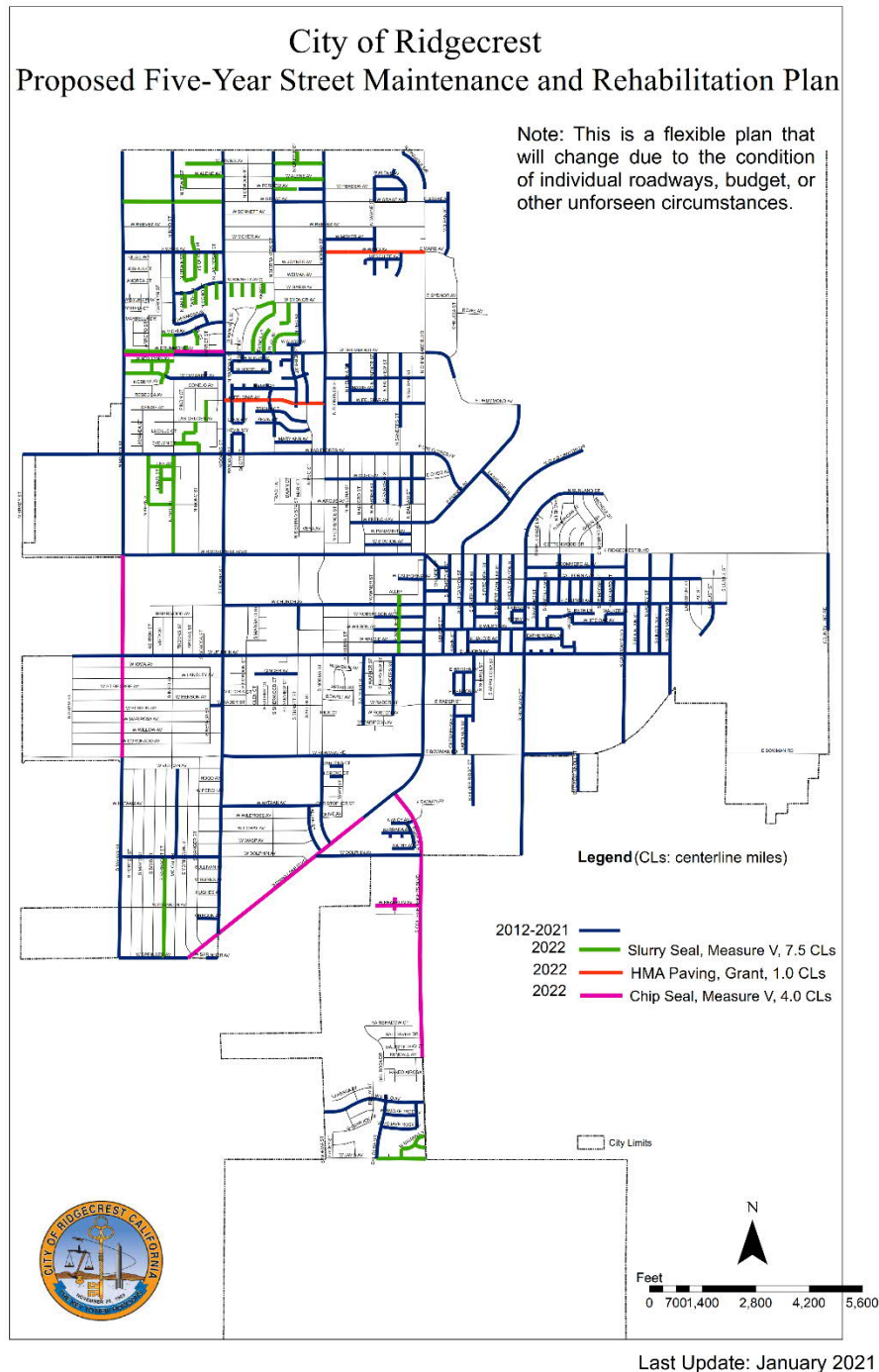
City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

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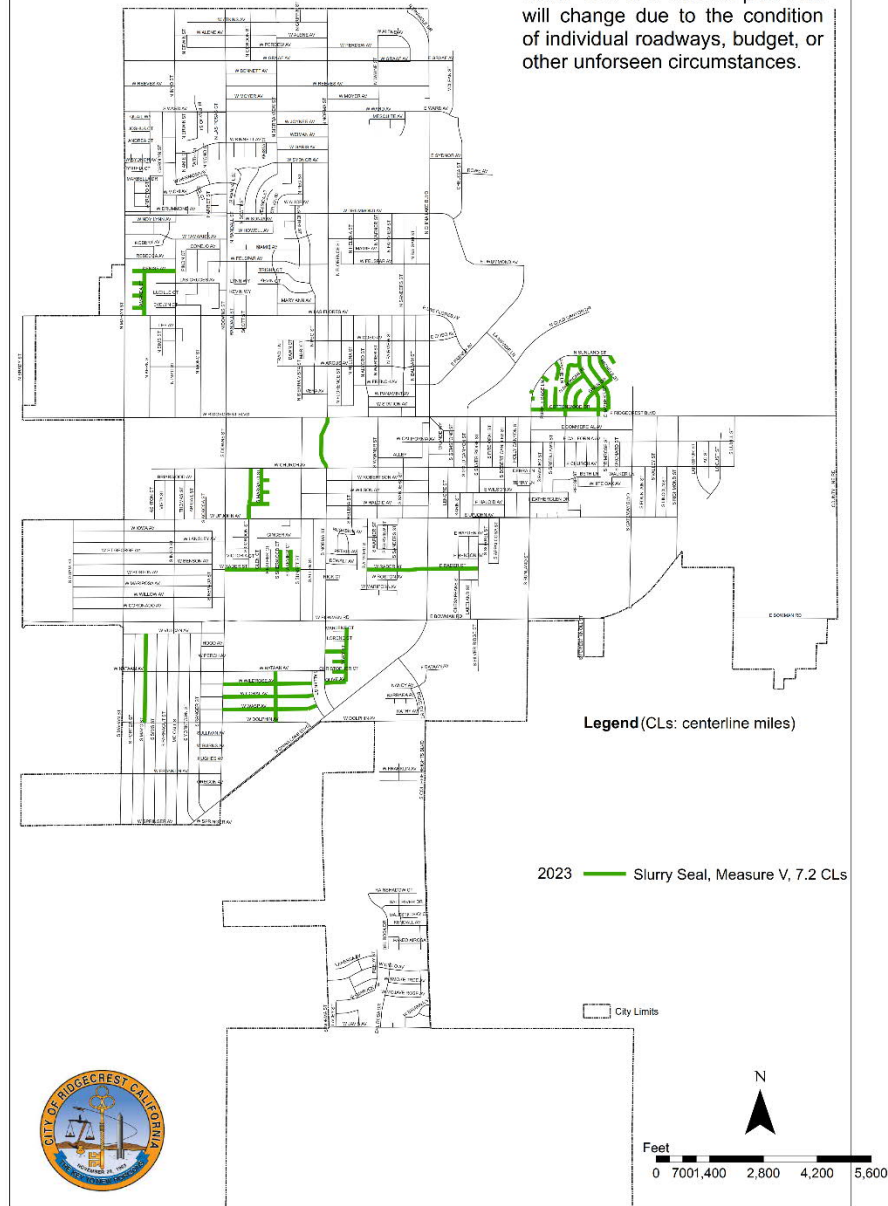
This shows all the streets that are proposed to be completed by November of 2022. 71.6 Centerline miles and 57% of all roads



Shown in green
are the streets
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and Fall of 2023

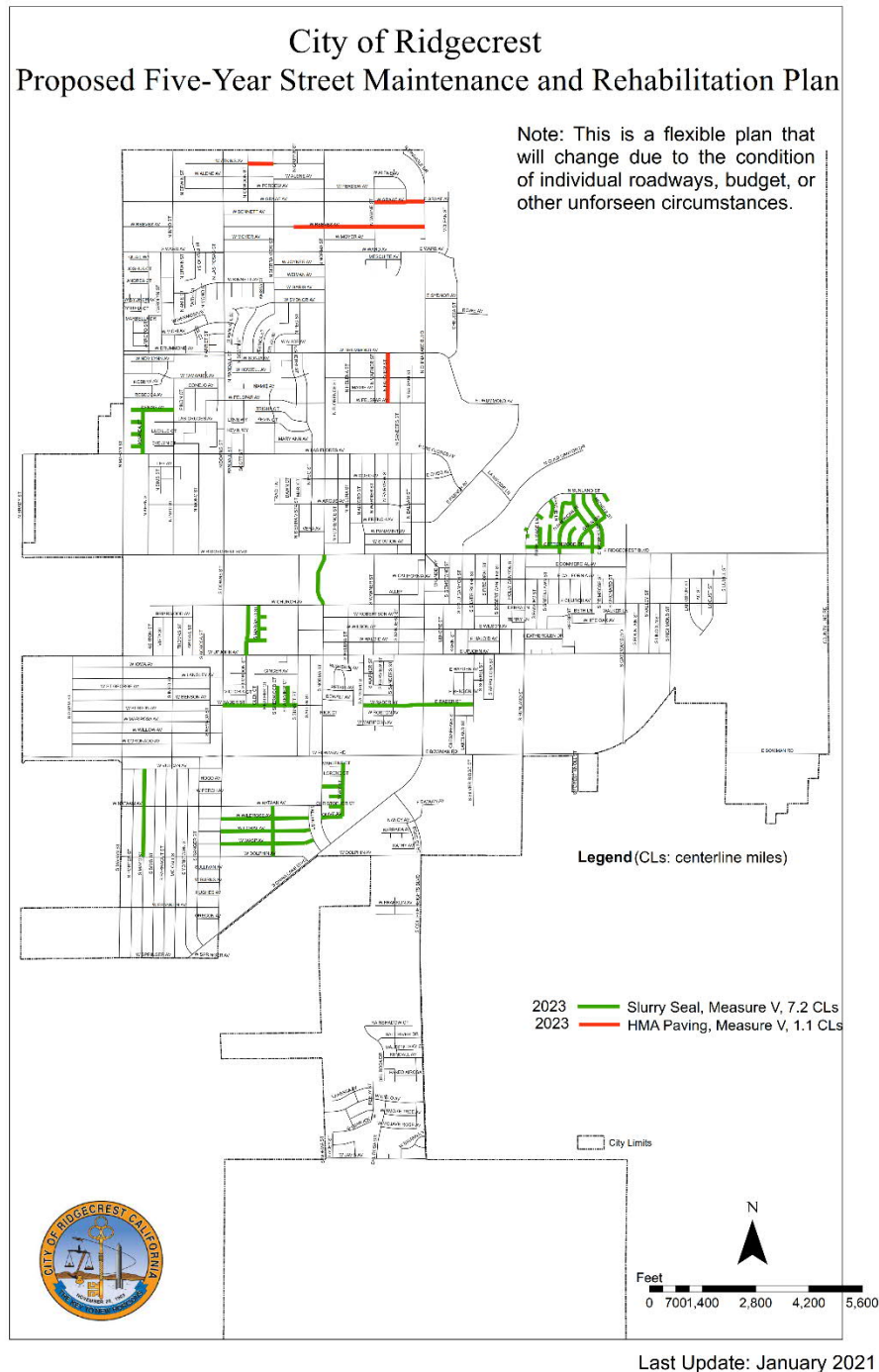
City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

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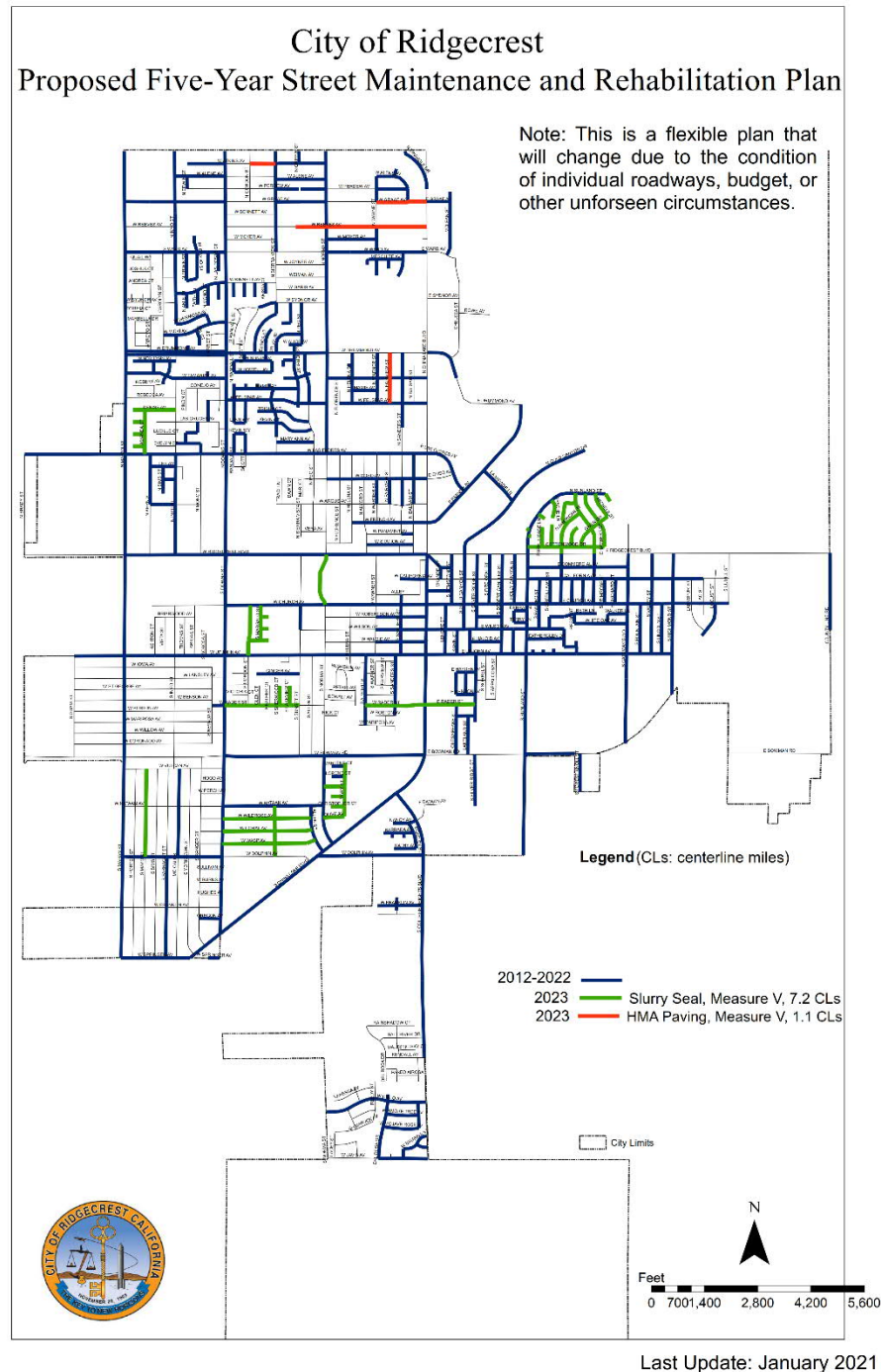


Last Update: January 2021

The red streets are those proposed for the second year of the Measure V Paving Program. These streets are proposed to be milled and then paved in the summer of 2023



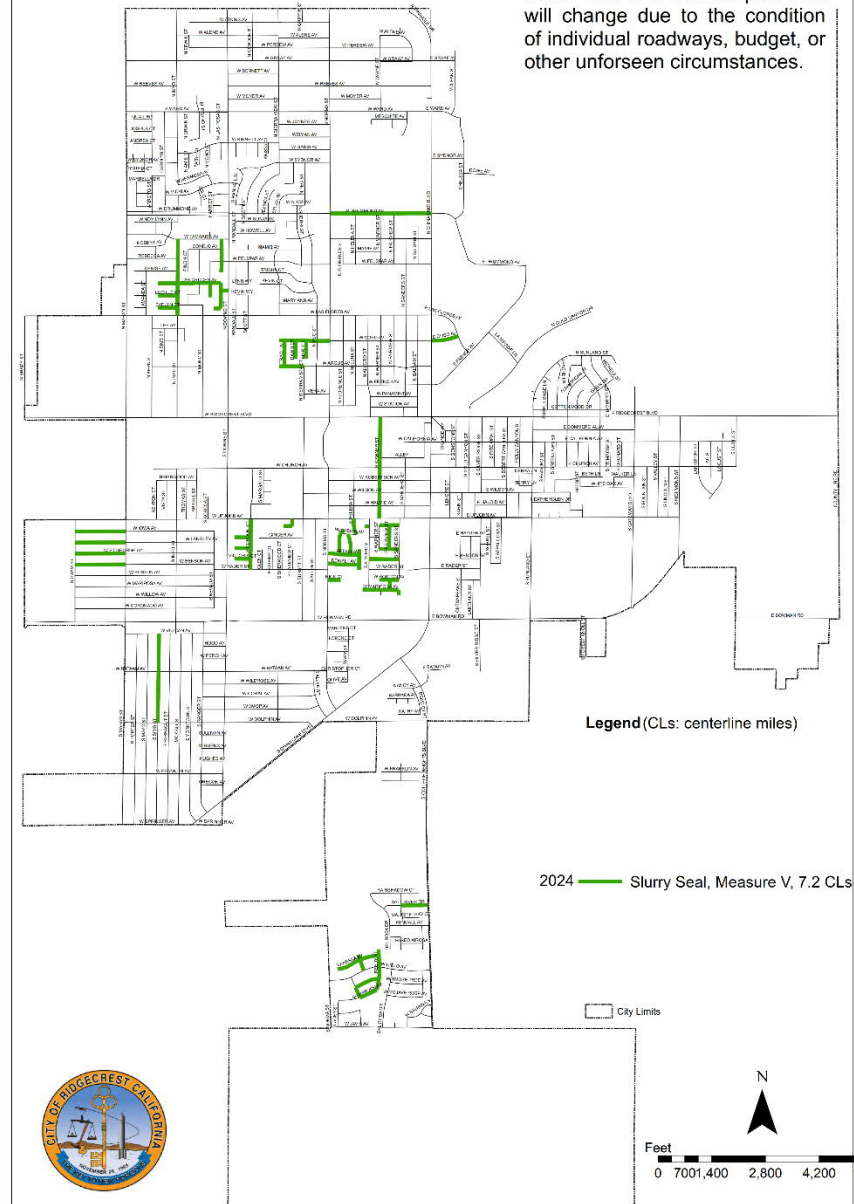
This shows all the streets that are proposed to be completed by November of 2023. 79.9 Centerline miles and 63% of all roads



Shown in green
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and Fall of 2024

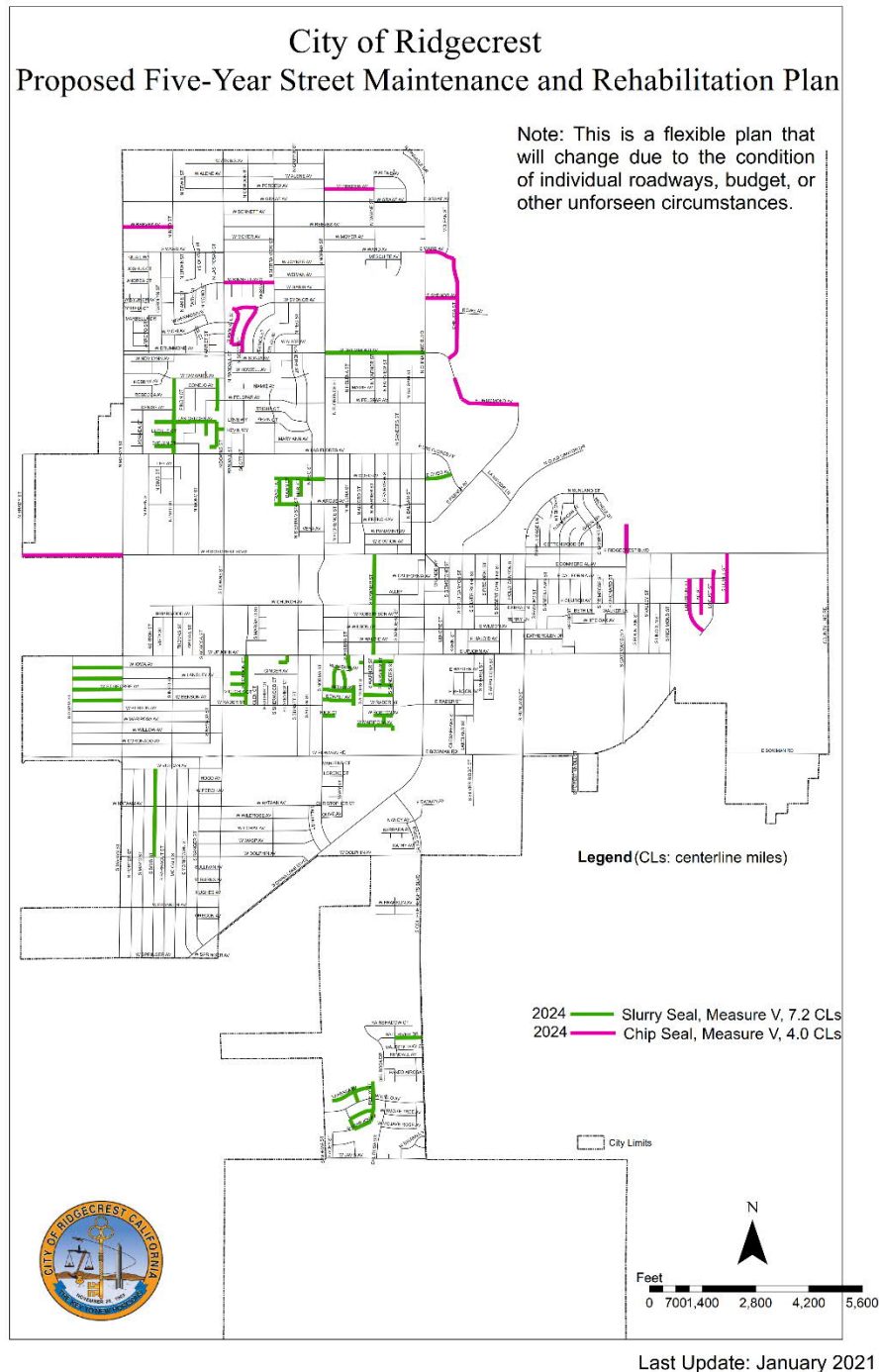
City of Ridgecrest Proposed Five-Year Street Maintenance and Rehabilitation Plan

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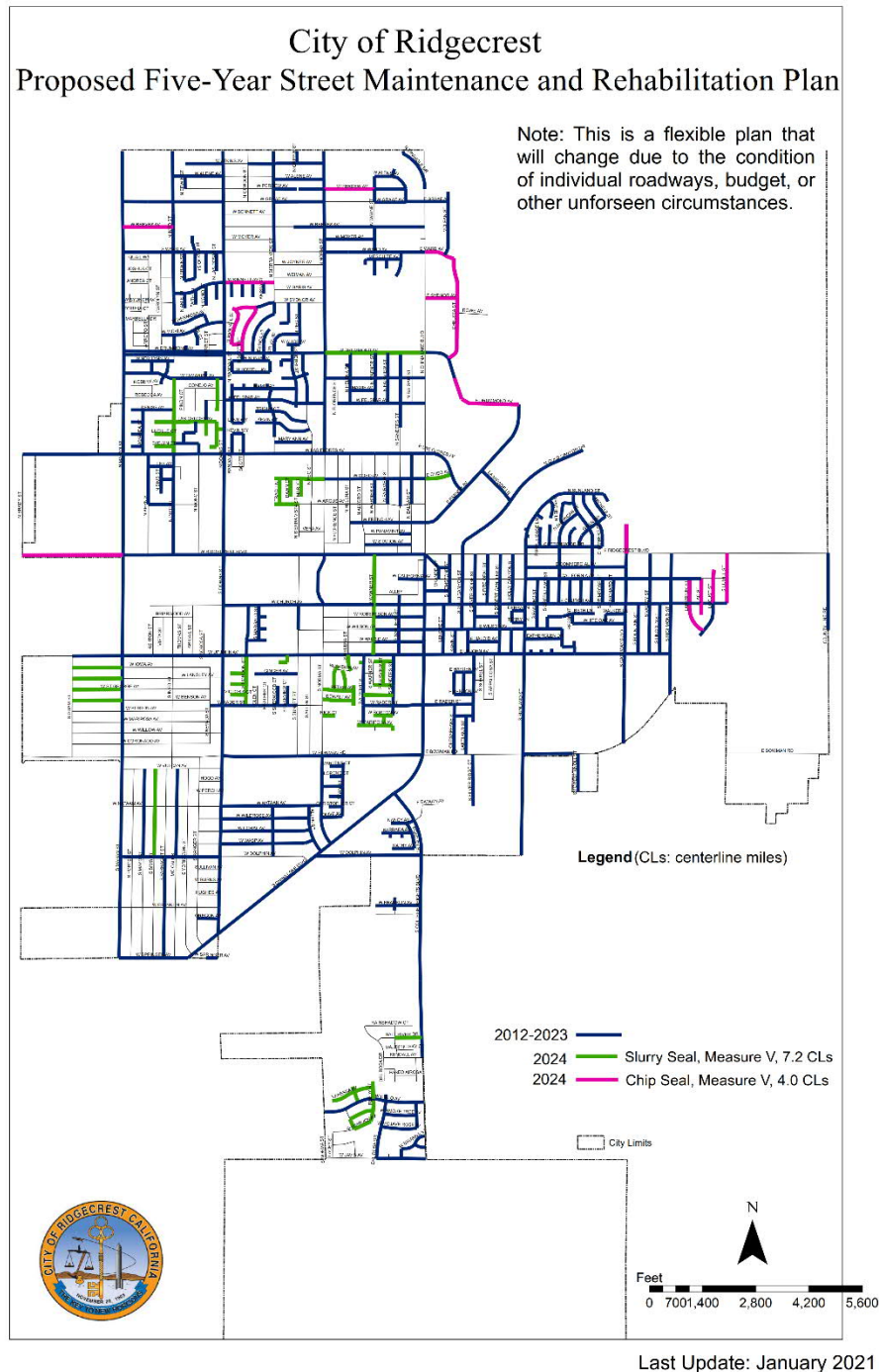


Last Update: January 2021

The Pink streets are proposed to be chip sealed using Measure V funding in the summer of 2024



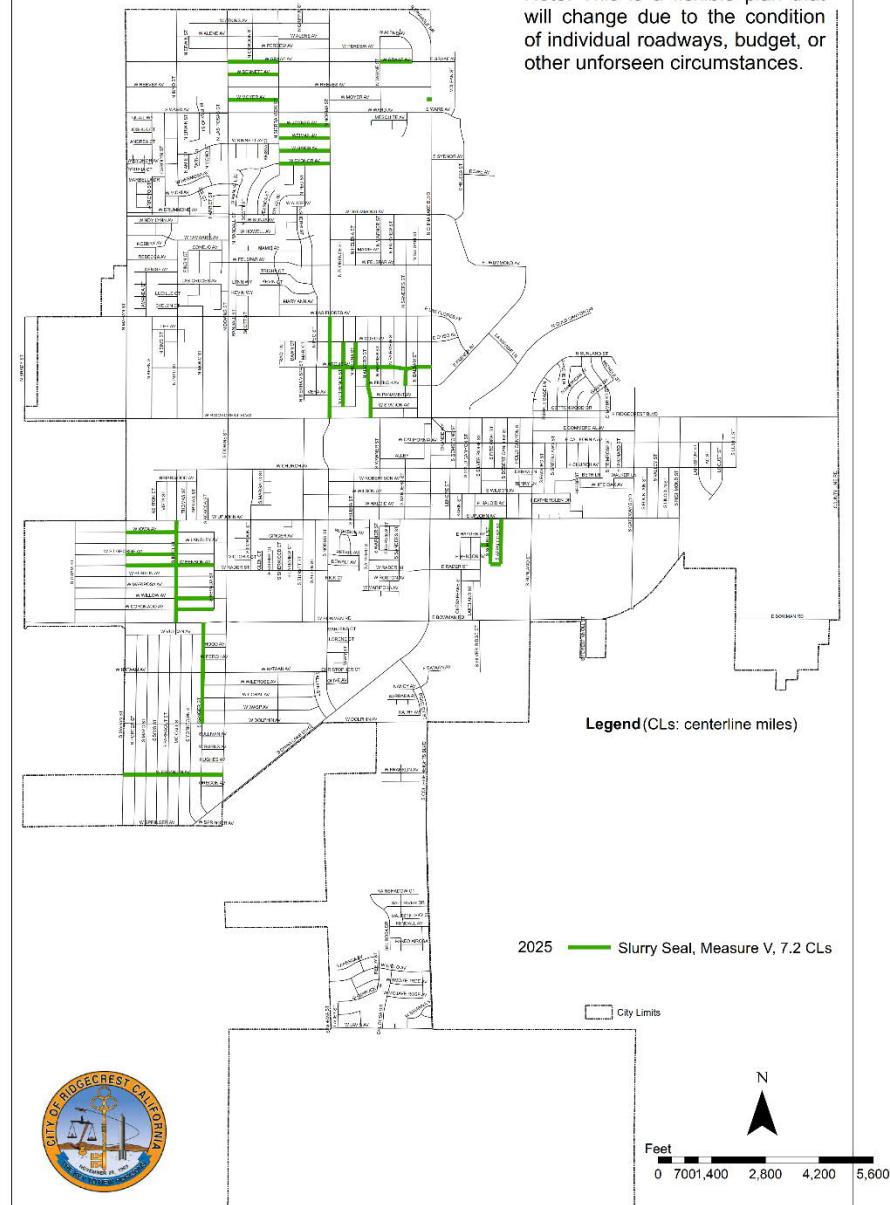
This shows all the streets that are proposed to be completed by November of 2024. 91.1 Centerline miles and 71% of all roads



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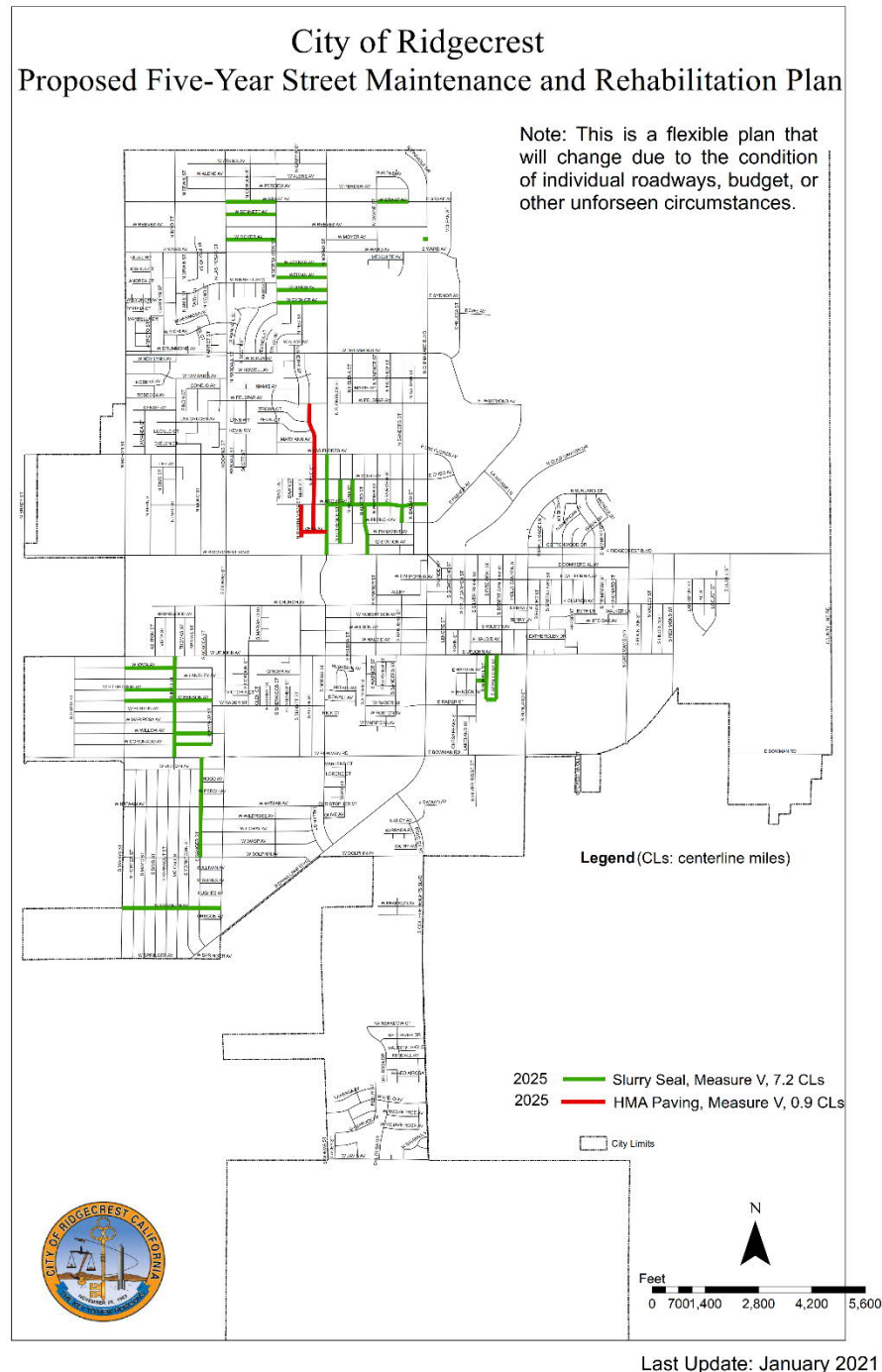
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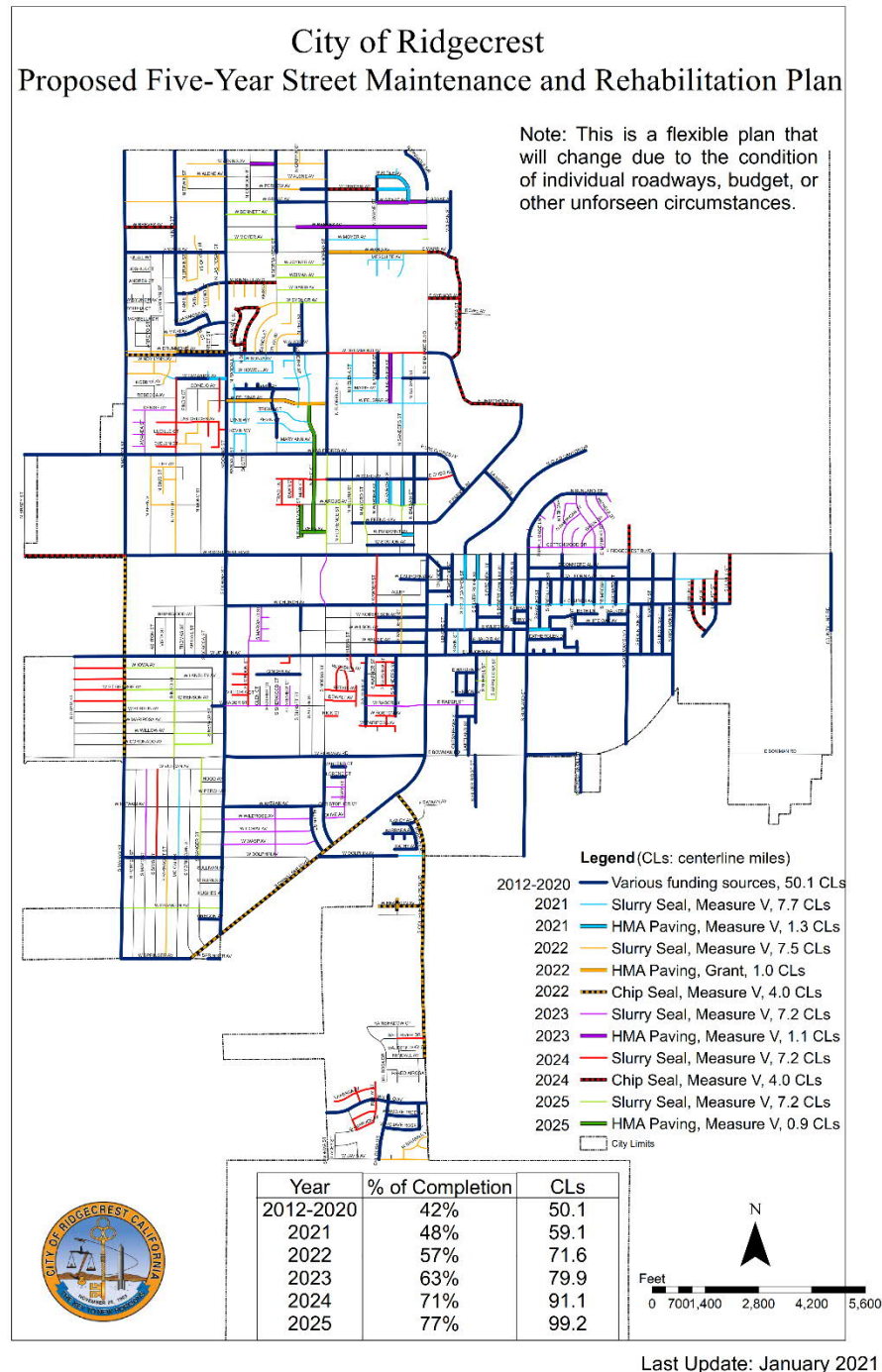
The red streets are those proposed for the third year of the Measure V Paving Program. These streets will be milled and then paved in the summer of 2025



This shows all the streets that are proposed to be completed by November of 2025. 99.2 Centerline miles and 77% of all roads.

This map also color codes all work that is proposed to be completed in the next 5 years.

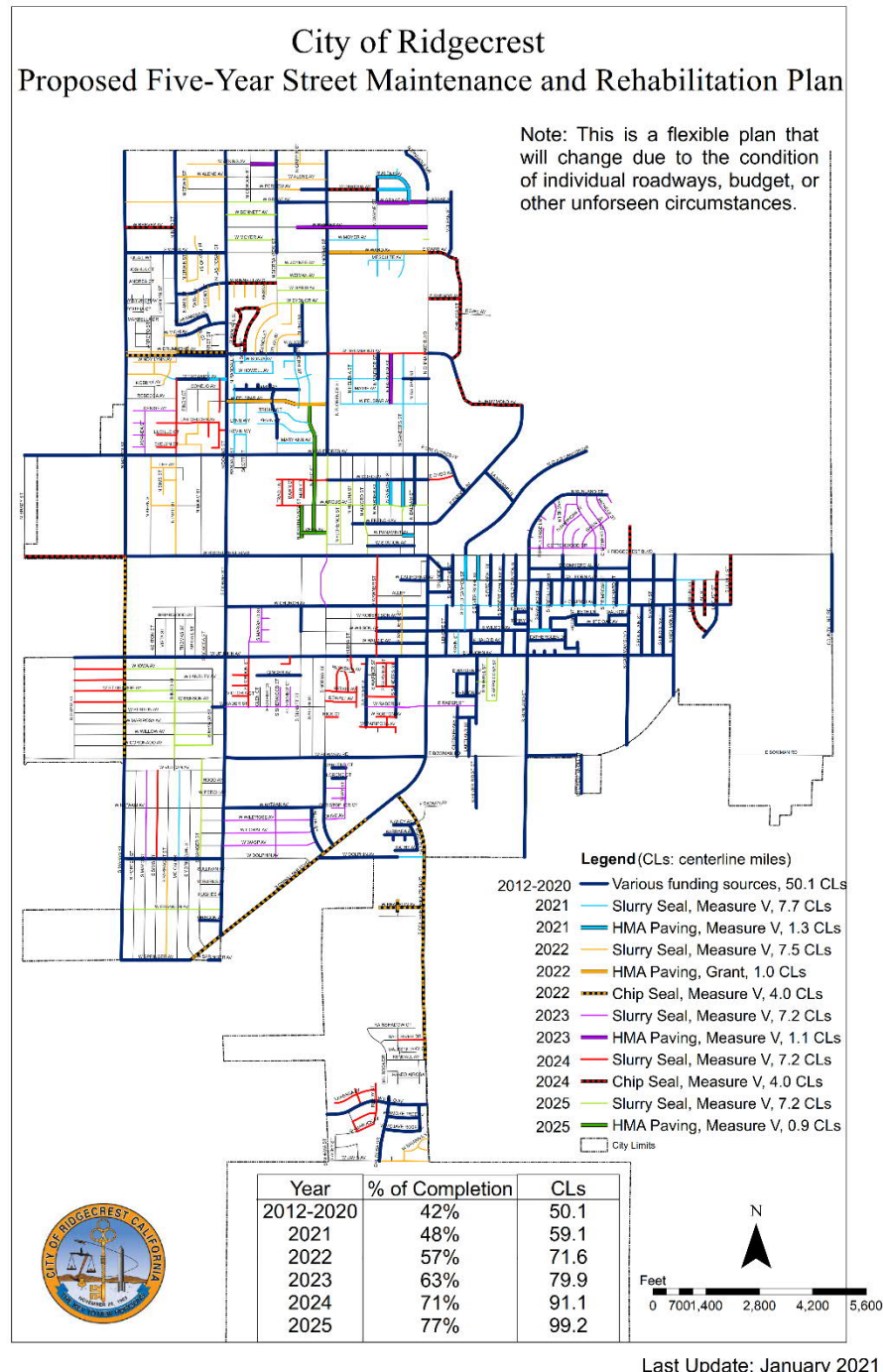
You will each leave here tonight with a copy of this map.



Please be sure to notice the note in the upper right hand corner and remember that I have used the word proposed to be completed extensively during this presentation

Although this plan will be added to the City's website, there is no guarantee from year to year that all roads will be completed in the order they are shown.

There is every possibility that one road will deteriorate at an accelerated level and need to be moved forward. Or proposed utility work may move a roadway back until the work is completed



Additional Information

- As an aside to this plan, substandard streets will begin to receive a desert mix and chip seal in 2022 and 2024

Pavement Condition Index

- The City's Pavement Condition Index (PCI) is based on an evaluation of all City streets.
- PCI is based on a scale of 1 to 100
- The City's PCI was 23.5 in 2011
- The City's PCI was 54.9 in 2015
- Gail has just finished the newest PCI study
 - Which should come to the Infrastructure Committee and Council in the next several months
- The City's current PCI is 62

Conclusion

- A lot of work has been completed and will continue to be completed. If the plan works as shown, 77% of all roads or 99.2 centerline miles of roadway will have been resurfaced since Measure L was enacted in 2012 – or just 13 years
- If Ridgecrest Citizens choose to renew Measure V. All City streets will be resurfaced at least once before 2030.
- With gas tax revenues continuing to fall, Measure V is by far the largest funding source available to maintain City streets.
- The continuance of Measure V is essential to sustaining the maintenance of and improvements to the City's hundred million dollar street infrastructure.

QUESTIONS